

What is claimed is:

1. A method for producing transgenic plants which express beneficial exogenous proteins, comprising:
- obtaining a sample of mRNA encoding said exogenous protein;
 - incubating seed of said plant with said mRNA under conditions whereby said mRNA enters said seed;
 - germinating said seed; and
 - growing said transgenic plant from said seed.
2. A method as claimed in claim 1, wherein said exogenous protein is soy globulin.
3. A method as claimed in claim 1, wherein said mRNA encodes soy globulin.
4. A method as claimed in claim 1, wherein said seed is corn seed.
5. A method as claimed in claim 1, wherein said exogenous protein is detected with methods selected from the group consisting of Western blotting, double agar immunodiffusion, and Sodium dodecyl sulfate polyacrylamide gel electrophoresis.
6. A method as claimed in claim 1, wherein said mRNA is introduced into said seeds by microinjection.
7. A method as claimed in claim 1, wherein said mRNA is isolated from soy cotyledon.
8. A method as claimed in claim 1, wherein said mRNA is isolated from soy sprouts.

9. A transgenic plant expressing beneficial exogenous proteins,
produced by a method comprising:

a. obtaining a sample of mRNA encoding said exogenous
protein;

b. incubating seed of said plant with said mRNA under
conditions whereby said mRNA enters said seed;

c. germinating said seed; and

d. growing said transgenic plant from said seed.

10. A method of producing transgenic corn plants expressing soy
globulin, comprising:

a. obtaining soy globulin encoding mRNA;

b. incubating corn seed with said mRNA under conditions
whereby said mRNA enters said corn seed;

c. germinating said corn seed treated as in step b;

d. growing a plant from said germinated seed; and

e. detecting said soy globulin in said transgenic corn
plant.

11. A method for producing transgenic corn plants expressing soy
globulin protein, comprising:

a. obtaining seed from corn strain 27-1 and imbibing said
seed in double distilled water for at least 48 hours;

b. isolating and purifying soy globulin mRNA from soy
cotyledon;

c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said
seed;

d. germinating said seed; and

e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein.

12. A method for producing transgenic corn plants expressing soy globulin protein, comprising:

a. obtaining seed from corn strain 85089 and imbibing said seed in double distilled water for at least 48 hours;

b. isolating and purifying soy globulin mRNA from soy cotyledon;

c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;

d. germinating said seed; and

e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein.

13. A method for producing transgenic corn plants expressing soy globulin protein, comprising:

a. obtaining seed from corn strain 27-1 and imbibing said seed in double distilled water for at least 48 hours;

b. isolating and purifying soy globulin mRNA from soy sprout;

c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;

d. germinating said seed; and

e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein.

14. A method for producing transgenic corn plants expressing soy globulin protein, comprising:

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- a. obtaining seed from corn strain 85089 and imbibing said seed in double distilled water for at least 48 hours;
- b. isolating and purifying soy globulin mRNA from soy sprout;
- c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;
- d. germinating said seed; and
- e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein.

- 10 15. A transgenic corn plant expressing soy globulin protein,
15 produced by a method comprising:

- a. obtaining seed from corn strain 27-1 and imbibing said seed in double distilled water for at least 48 hours;
- b. isolating and purifying soy globulin mRNA from soy sprout;
- c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;
- d. germinating said seed; and
- e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein.

16. A transgenic corn plant ~~expressing soy globulin protein.~~
17. The plant of claim 16 in which said corn is strain 27-1.
18. The plant of claim 16 in which ~~which~~ said corn is strain 85089.
19. The transgenic plant of claim 9 in which said seed is corn strain 27-1.

20. The transgenic plant of claim 9 in which said seed is corn strain 85089.

21. Transgenic corn kernels expressing soy globulin protein.

22. Kernels from a transgenic corn plant expressing soy globulin protein, produced by a method comprising:

- a. obtaining seed from corn strain 27-1 and imbibing said seed in double distilled water for at least 48 hours;
- b. isolating and purifying soy globulin mRNA from soy sprout;
- c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;
- d. germinating said seed;
- e. growing transgenic corn plants from said seed, said transgenic plant producing said soy globulin protein; and
- f. harvesting said kernels from said transgenic corn plants expressing soy globulin protein.

23. The corn kernels of claim 21 wherein the corn is strain 27-1.

24. The corn kernels of claim 21 wherein the corn is strain 85089.

25. Kernels expressing soy globulin protein from a transgenic corn plant produced by a method comprising:

- a. obtaining seed from corn strain 27-1 and imbibing said seed in double distilled water for at least 48 hours;
- b. isolating and purifying soy globulin mRNA from soy sprout;
- c. microinjecting $1\mu\text{g}/\mu\text{l}$ of said purified mRNA into said seed;

